COMPEX Wireless Internet Gateway Kit

COMPEX

networks@work

SKW811

Wireless Internet In-a-Box

Broadband Internet Sharing

Parallel Broadband

Time-based Access Management

Wireless Pseudo VLAN

Remote Router Management

Secured Data Communication

SKW811- a complete solution for SOHO users. SKW811 comes with our revolutionary NetPassage16 together with *iWave*Port WL11A serve as an access point communicating with the compact and efficient *iWave*Port WLU11, which is connected effortlessly to a computer via the USB interface. NetPassage 16 is designed with the latest technology from Compex such as “Parallel Broadband” for Load Balancing and Fail-Over Redundancy. It enhances the security level by utilizing our unique “Wireless Pseudo VLAN”.The web based configuration interface provided by each device offers a hassle free implementation. In addition, it allows a seamless integration between the wireless network and the wired network.

features & benefits

Broadband Internet Sharing

Compex NetPassage 16 comes with an RJ45 Ethernet WAN port supporting an external Cable or ADSL modem. It distributes your Cable or ADSL Internet service to its Fast Ethernet segment and Wireless LAN.

Parallel Broadband

Parallel Broadband, the unique feature on Compex broadband routers, enables multiple NetPassage 16 to be installed in the same network, delivering Load Balancing and Fail-Over Redundancy with multiple broadband channels.

Time-based Access Management

With Time-based Access Management, you may define time-based administrative function, selectively allow or disallow certain computers to access to the Internet during certain period of time.

Web-based Configuration Interface

For the ease of configuration, all the devices are integrated with an embedded HTTP server. To configure, simply connect to the devices’ IP addresses with a JAVA-enabled web browser.

Reliable Transmission

Provides high data reliability. In the event of data corruption, *iWave*Port WLU11A is capable of data recovery from the “chipping code” without the need for retransmission.

Static Address Translation

With this functionality, this allows users with IP addresses different from the office network to be connected without the need for further configuration.

CE FC BZ02 N 12030

Designed for Microsoft® Windows® 2000 Professional Windows® 98

Novell. TESTED & APPROVED

POWERED BY WindRiver SOFTWARE

Secured Data Communication

NetPassage 16 and iWavePort WLU11A offers users data security by using the 64 bit or 128 bit WEP encryption key to code the data transmitted in a wireless environment. Only the wireless clients configured with the same key can retrieve the data.

Seamless Integration with wired Network Segment

There is no need to overhaul the existing wired segment of your network. NetPassage 16 is integrated with a 4 port 10/100Mbps Fast Ethernet Switch that provides immediate Internet solution for 4 wired computers. If you wish to support more users, you may easily cascade additional Hub or Switch to NetPassage 16.

Upgradeable Firmware

Compex NetPassage 16 is designed with Firmware Upgrade capability. You may easily update the NetPassage 16 with the newest firmware to support the latest features and technologies

Wireless Pseudo VLAN

Compex NetPassage 16, if activated with Wireless LAN option, supports Wireless Pseudo VLAN engineered by Compex. Wireless Pseudo VLAN, if implemented, isolates the wireless clients in their own Pseudo VLAN This gives the users additional privacy as well as security. For wireless LAN deployed in the airport, exhibition hall or commercial hotspots, Wireless Pseudo VLAN ensures the privacy and security among unknown users. NetPassage 16 supports two types of Wireless Pseudo VLAN, Per Node and Per Group.

Per Node Pseudo VLAN

Wireless Pseudo VLAN defined on Per Node basis divides the wireless LAN into multiple Pseudo VLANs, with each containing one wireless client. Every wireless client uses the same WEP key (if WEP is implemented) to be authenticated and access to the wireless network.

Per Group Pseudo VLAN

Per Group Pseudo VLAN divides the Wireless LAN into 4 Pseudo VLANs, with each containing a group of wireless clients. The Pseudo VLAN membership is defined base on MAC address of the wireless client. Each Per Group Pseudo VLAN utilizes different WEP key (if WEP is implemented)

56K Analog Dial-up

NetPassage 16 is designed with RS232 serial port supporting an external V.90 56K analog modem for 56K dial-up connection. When the broadband connection is unavailable, NetPassage 16 will automatically establish a connection to the Internet via the 56K analog dial-up.

Remote Router Management

With Remote Router Management, the network administrators may easily connect to NetPassage 16's management interface from the remote location, via an HTTP or TELNET session.

Virtual Server

For hosting of any Internet server in your private network, you can easily define a Virtual Server. Compex NetPassage 16 supports two types of Virtual Server, Port Forwarding & IP forwarding.

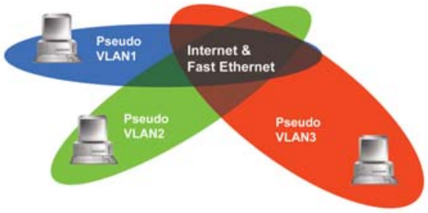

Figure 1. Per Node Pseudo VLAN

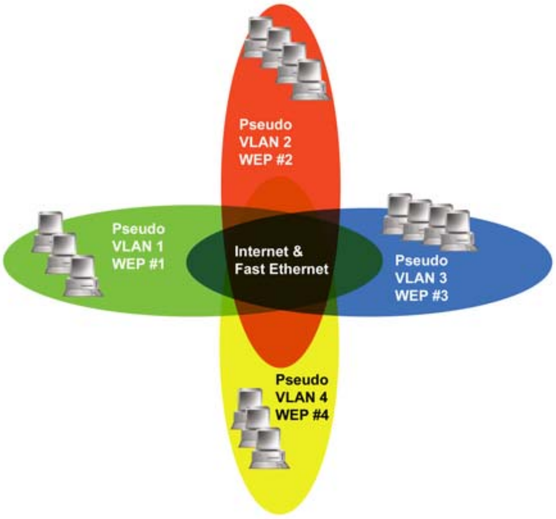

Figure 2. Per Group Pseudo VLAN

application

NetPassage 16 together with the PCMCIA *iWave*Port WL11A serves as an Access Point for the wireless client using *iWave*Port WLU11A for wireless connectivity. In addition, NetPassage allows the bridging of the wireless LAN to the Fast Ethernet Network as shown in Figure 3.

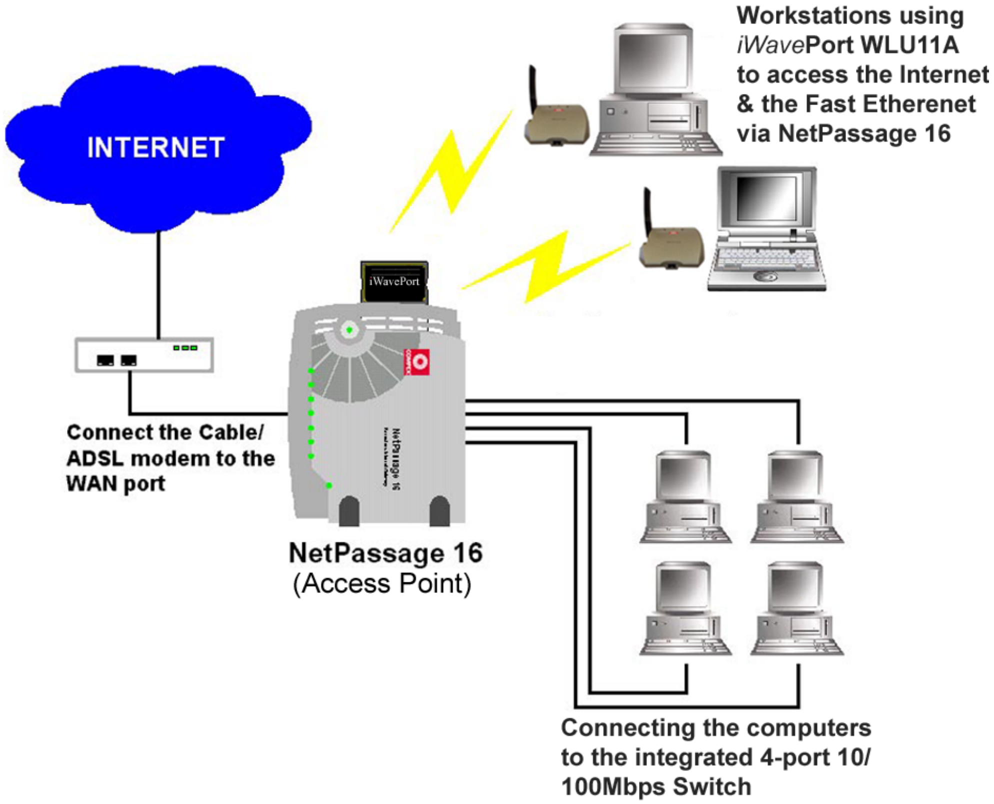
INTERNET
Workstations using *iWave*Port WLU11A to access the Internet & the Fast Etherenet via NetPassage 16
iWavePort
Connect the Cable/ ADSL modem to the WAN port
NetPassage 16
(Access Point)
Connecting the computers to the integrated 4-port 10/ 100Mbps Switch

Figure 3. Distributing Broadband Internet Access to Fast Ethernet and Wireless Network while Bridging the Wireless Network to the Fast Ethernet Network

specifications

Model	NetPassage 16
Industry Standards	IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX; IEEE 802.3x Flow Control
Safety Certifications	FCC Class A, CE Mark, Gost, C-Tick
WAN Interface	1 x RJ45 10/100Mbps Fast Ethernet Switch 1 x RS232 serial interface (for V.90 56K analog modem)
Wan Protocol	Static IP, Dynamic IP, PPP over Ethernet (PPPoE), Dana RAS
LAN Interface	1 x 4-port 10/100Mbps Fast Ethernet Switch 1x PCMCIA slot (for Compex wireless LAN card)
Private Subnet	All Classful/Classless subnet
Built-in DHCP server	Yes
Load Balancing	Parallel Broadband
Fail-Over Redundancy	Parallel Broadband
Network Address Translator	Yes
Virtual Server	Port Forwarding & IP Forwarding
De-Militarized Zone (DMZ)	Yes
Time-based Acces Control	Yes
Application Filtering	Based on Source IP & TCP/UDP port
Configuration Interface	Web-based GUI, RS232/TELNET Command Console
Remote Router Management	via HTTP & Telnet session
Wireless LAN	with iWavePort WL11A provided
Industry Standards	IEEE 802.11DSSS, IEEE 802.11b High Rate
Operating Frequency	2.4GHz ~ 2.4835GHz
Operating Mode	Access Point or Access Point Client (selectable)
WEP Encryption	128-bit or 64-bit (selectable)
Wireless Pseudo VLAN	Per Node & Per Group
Environmental Requirement	
Temperature	Operating : 0°C to 40°C Storage : -20°C to 70°C
Humidity	Operating : 10%RH to 70%RH Storage : 5%RH to 90%RH

specifications

Model	iWavePort WLU11A
Industry Standards	IEEE 802.11 & 802.11b DSSS; USB Specification 1.1; FCC Class B, CE Mark, Gost, C-Tick
Interface	One Type B USB Interface
Radio Technology	Direct Sequence Spread Spectrum (DSSS)
Frequenct Band	2.4Ghz ISM Band
Operating Channel	11 Channels (US & Canada) 13 Channels (Europe)
Media Access Method	Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
Modulation	CCK, BPSK, QPSK
Antenna	Dipole Antenna
Data Privacy	64-bit or 128-bit WEP encryption (selectable)
Power Consumption	5V, 250mA TX, 150mA RX, 30mA Standby
Supported OS	Microsoft Windows 98SE, ME, 2000, XP
Environmental Requirement	
Temperature	Operating : 0°C to 40°C Storage : -20°C to 70°C
Humidity	Operating : 10%RH to 70%RH Storage : 5%RH to 90%RH

Trademarks

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